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GE Power Systems

Turbine Optimizer™

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## Unit Profile

Choose a Site: MY STATION

Choose a Unit: 006 -- MY7FAGT

GO

Unit / Outage Information Correct any deficiencies in the data below - click update to effect your changes

Next Outage Dates	MM DD YY	MY CUSTOMER	Site ID	MY STATION
MAJOR	02 02 2001	006	Serial #	MY7FAGT
HOT GAS PATH		150108 100 Connected	Heat Rate Btu/kWh	9777 kD Connected
COMBUSTION		0.0 Source 0844	Reliability (%)	0.0 Source 0844
Operational Cycle	Combined Cycle	Op Hours	Unit Starts	147
Loading Cycle	Mid-Range	COG	Shipped Date	08/01/1992
Fuel Type	Liquid Natural Gas	Reading Date: 09/10/1997	Frame Size	071FA
Emission Control	Dry Low Nox 2.0	Unit Type: Gas Turbine	Control Type	

Notes on Fleet Performance comparison figures (OUTPUT HEATRATE, AVAILABILITY, and RELIABILITY)

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Identify inaccuracies or missing information

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200

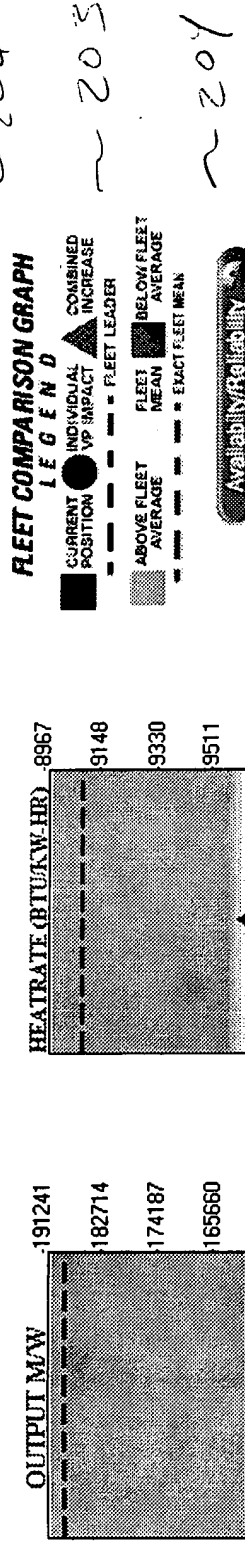
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Choose a Site: MY STATION Choose a Unit: MY7FAGT **GO**

Turbine Optimizer Results are Based on the Following Criteria

Electricity Price: 0.00 \$/MWH Fuel Cost: 3 \$/MBTU Annual Op. Hrs: 8000 Cost of Capital(%): 15 Tax Rate(%): 40 **Update**



201

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201

**Notes on Fleet Performance comparison figures**

View Impact	GE Reference Number	Value Package Name	Lead Time (Weeks)	Heat Rate (%)	Estimate of Annual Revenue US\$	Present Net Value US\$	Estimate of Years Payback
<input type="checkbox"/> P1	EM12A1FA	Full Upgrade Turbine Optimizer I	52	1.30	\$2,222,450	\$4,680,000	6.6
<input checked="" type="checkbox"/> P2	EM12A1FA	Stage 1 Turbine Optimizer Package I	32	1.02	\$1,162,540	\$3,220,000	6.6
<input type="checkbox"/> P3	EM12A1FA	Stage 1 Turbine Optimizer Package IV	32	0.97	\$524,391	\$1,410,000	1.0
<input type="checkbox"/> P4	EM12A1FA	Stage 1 Turbine Optimizer Package III	32	0.97	\$951,262	\$2,500,000	6.6
<input type="checkbox"/> P5	EM12A1FA	Stage 1 Turbine Optimizer Package II	26	0.43	\$702,468	\$1,800,000	6.6
<input checked="" type="checkbox"/> P6	EM12A1FA	Stage 2 and 3 Turbine Optimizer Package I	36	1.10	\$1,492,780	\$4,500,000	9.4
<input type="checkbox"/> P7	EM12A1FA	Stage 2 and 3 Turbine Optimizer Package II	36	1.1	\$1,426,770	\$4,000,000	9.4

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Fig 2

202

00/222T" E0E6h250

Update Performance  
Impact Matrix

301 ~ 302

300

Customer Name	SN	Current Rating	Stg1	S1B, S1S	S1N, S1S	S1B, S1N	88 IGV	CDC/ HPP	S2B, S2S	S3B, S3S	S2B, S2S, S3B, S3S	Stg2, Stg3	Performance impact (parts only)
ACME TI=2420, IGV=90	297031	Output	0.64	0.31	0.70	0.13	0.00	0.00	0.08	-0.03	0.09	0.59	1.30
		HR	-0.51	0.02	-0.55	0.36	0.00	0.00	0.02	0.07	0.03	-0.20	-0.77
Smith TI=2420	297112	Output	0.54	0.21	0.70	0.03	0.00	0.00	0.08	-0.03	0.09	0.59	1.20
		HR	-0.51	0.02	-0.55	0.36	0.00	0.00	0.02	0.07	0.03	-0.20	-0.77

305

304

307

Sum Parts+ TI	Cycle Deck Run	FV1B	FV1P	FV1T	FV1U	FV1V	FV1W	FV1N	FV1O	FV1Q	FV4B	FV4P	FV4T	FV4U	FV4V	FV4W	FV4N	FV4O	FV4Q
0 1.3		1.3	0.313	0.594	0.086	0.0799	-0.033	0.639	0.6993	0.125	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
0 -0.77		-0.77	0.02	-0.198	0.026	0.02	0.0733	-0.506	-0.553	0.363	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
0 1.3		1.2	0.313	0.594	0.086	0.0799	-0.033	0.639	0.6993	0.125	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
0 -0.77		-0.77	0.02	-0.198	0.026	0.02	0.0733	-0.506	-0.553	0.363	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Fig 3

Fin

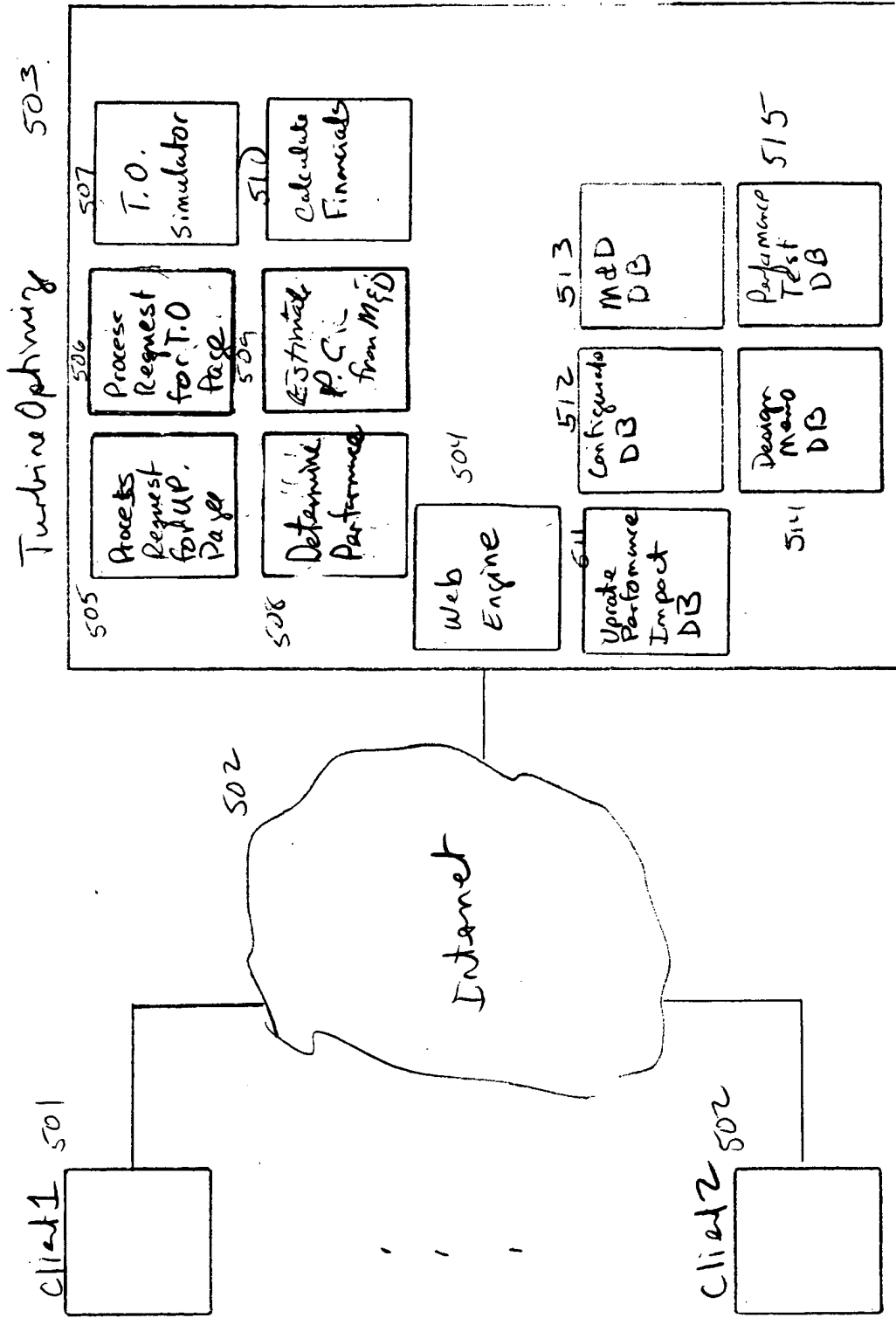


Fig 5

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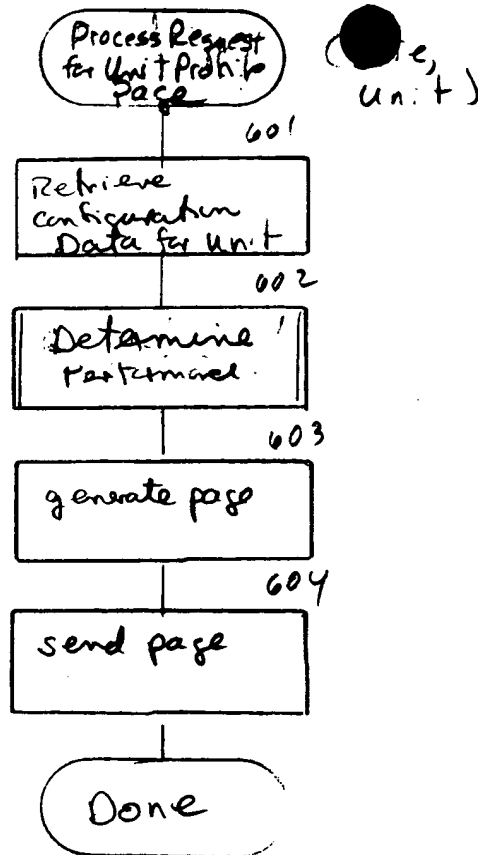
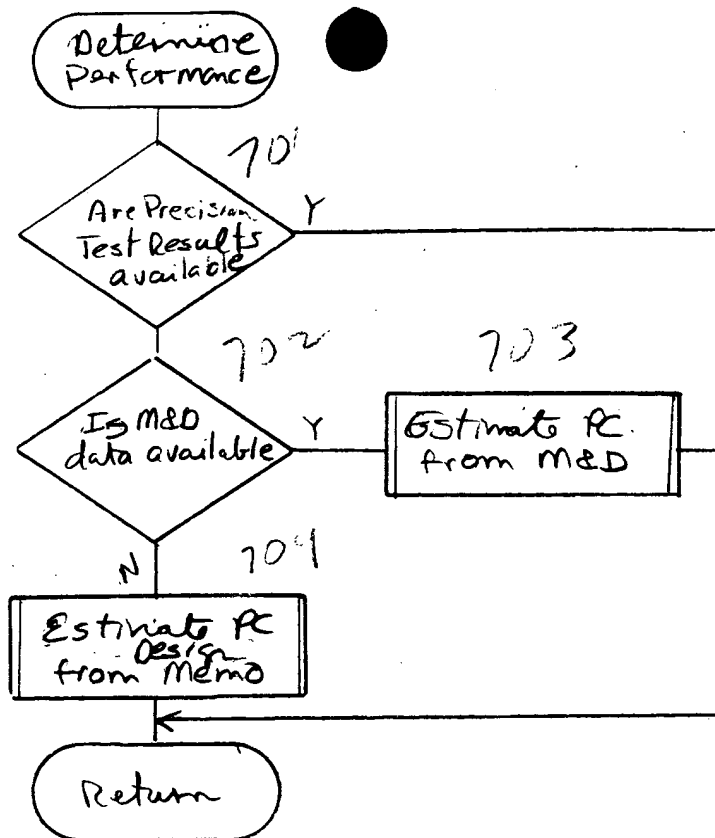


Fig 6

**REPORT**



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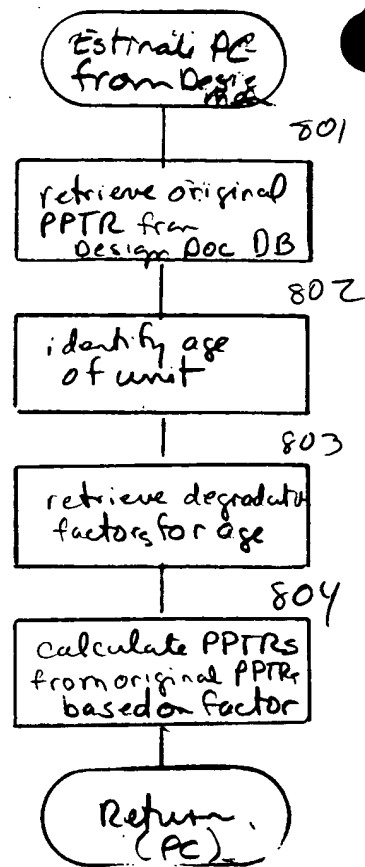


Fig 8

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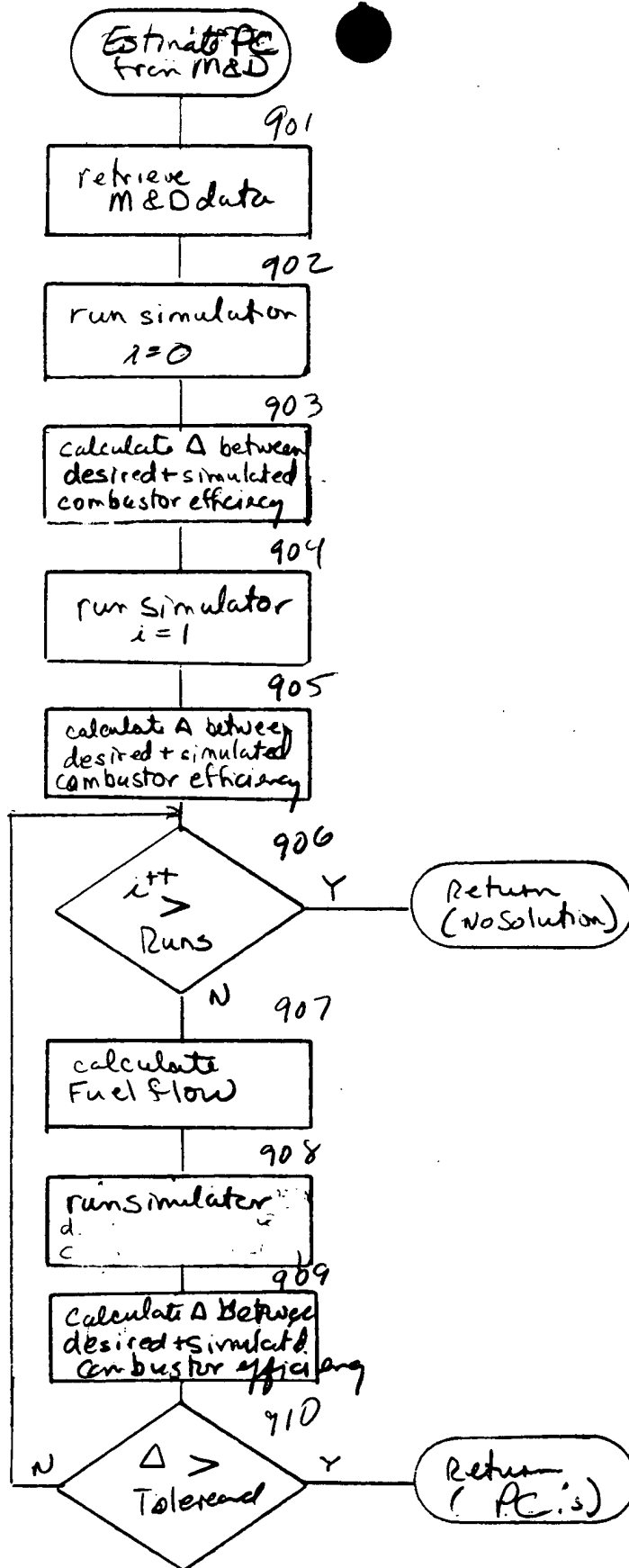


Fig 9



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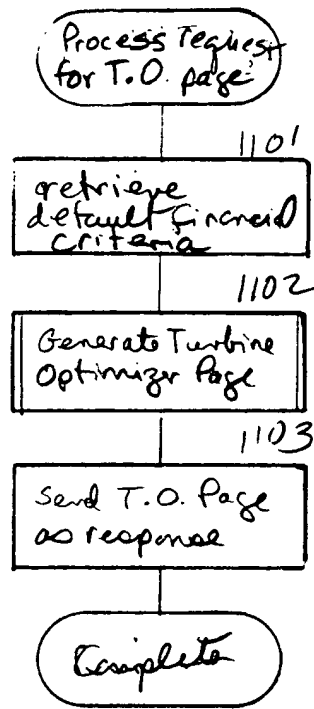


Fig 11

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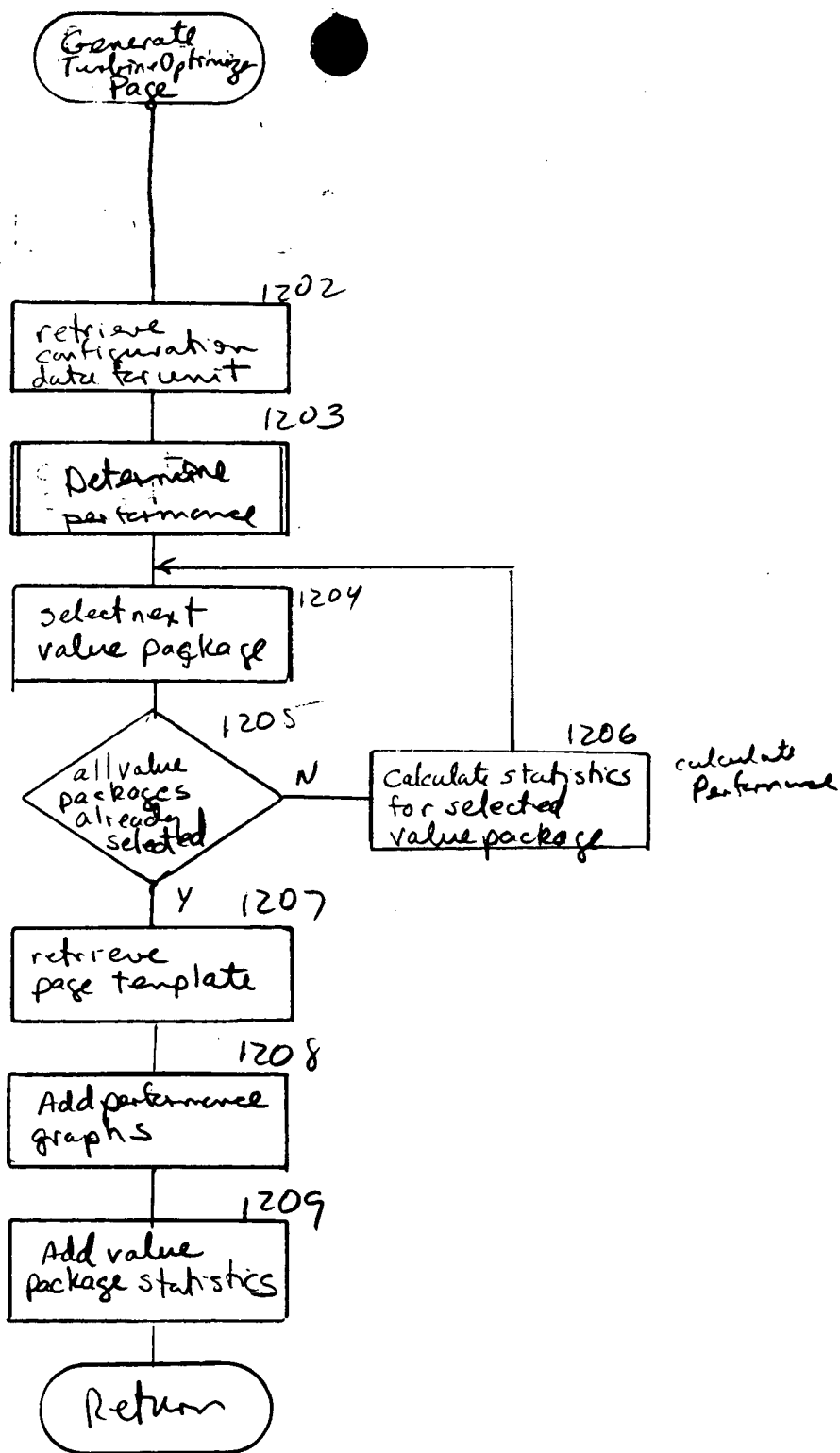


Fig 12

